



Memorandum

To: Provosts and Chief Academic Officers

CC: Mathematics Chairs/Leads

From: Dr. Ricardo Moena Faculty/Lead, Ohio Transfer Module Mathematics, Statistics, and Logic Review Panel/ Subgroup 2 of the Ohio Mathematics Initiative Chairs/Leads Network

Date: December 9, 2022

Subject: Announcement of Learning Outcomes for Ohio Transfer 36 TMM027 (Introduction to Logic)

Background

The Ohio Transfer 36, Subgroup 2, Mathematics, Statistics, and Logic have been tasked with exploring the possibility of an Introduction to Logic course. This effort is rooted in a recent shift from Ohio Transfer 36 guidelines to now learning outcomes. With this shift, previous mathematics courses approved under TMSL guidelines will expire as Ohio Transfer 36 courses are up for re-review aligning to each institutions specific course review timeline. The removal of TMSL, identified a need to develop learning outcomes for formal logic courses.

The proposed course (TMM027) is intended for students to think critically, reason, and communicate the meaning in data. The goal of this course is not to transform each student into a data scientist, but to give students a sense of data literacy.

The proposed Introduction to Logic (TMM027) learning outcomes serve the following purposes:

- Act as a general education course in formal logic. Courses primarily concerned with critical thinking in general do not qualify as an introduction to logic course.
- Serves as a general education option for students interested in pursuing program majors such as philosophy, pre-law, math, computer science, and engineering.

In September 2022 an endorsement survey request was distributed statewide to gain endorsement for the proposed criteria of the new Mathematics, Statistics, and Logic Ohio Transfer 36 course. Upon concluding the statewide endorsement survey, feedback was reviewed by the panel to address concerns expressed by institutions, the following were taken into consideration:

- **As a reminder, essential outcomes marked with an asterisk (*), must be met. The Introduction to Logic Ohio Transfer 36 course outlines 36 learning outcomes divided into four groups. Outcomes from the first two groups are essential. Additionally, courses must meet one set of alternate outcomes – either the outcomes from group 3 or those from group 4.**
- **To assist institutions with course design or redesign several textbooks have been identified by the Introduction to Logic writing panel. This is not an exhaustive list but rather a starting point to assist institutions.**
- **ODHE does not have requirements regarding the department from which mathematics course work is offered. Each institution has authority to determine the department structure that best suits its mission and student success; however, a master's level instructor with 18 hours in mathematics or philosophy is recommended.**

The results of the statewide endorsement survey indicated strong support for the creation of courses in the area of Introduction to Logic. As a result, this Ohio Transfer 36 course has been added to the Mathematics, Statistics, and Logic Ohio Transfer 36, effective immediately. This announcement will assist your institution with course development or refining your existing course(s) to better align with transfer guarantees. Institutions will need to submit related course(s) for panel review prior to approval.

Thank you for sharing this memo and attachments with the appropriate Mathematics faculty and administrators at your institution.

If you or your Ohio Transfer 36 coordinator have any questions, please contact the faculty lead for the Ohio Transfer 36 Mathematics, Statistics, and Logic Review Panel/Subgroup 2, Dr. Ricardo Moena at ricardo.moena@uc.edu or (513) 556-4055 or Jessi Spencer, Senior Director of Articulation and Transfer Policy, Budget, and Constituent Relations at jspencer@highered.ohio.gov or (614) 728-4706.

Attachments (1)